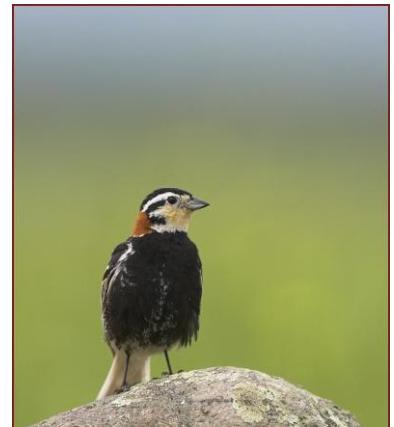


Species of Habitat Fragmentation Concern

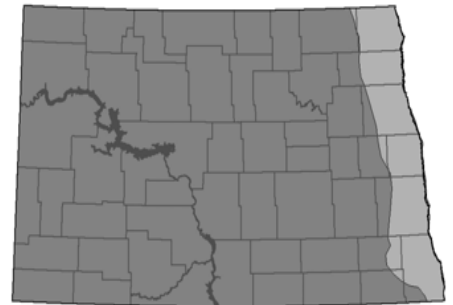
Species: Chestnut-collared Longspur (*Calcarius ornatus*)

Habitat Preference: Seasonal resident, species nests in North Dakota. Native prairie specialist, prefers native grasslands recently disturbed by fire, grazing, or mowing with vegetation height <20–30 cm, with minimal litter accumulation (Hill and Gould 1997). Avoids areas dominated by dense vegetation and plant communities dominated by shrubs and introduced grasses such as Kentucky bluegrass (Hagen et al., 2005).



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Habitat Fragmentation Concerns: Species of Conservation Priority in North Dakota because of loss of native prairie habitat (Level I; Hagen et al., 2005). Density and occurrence of Chestnut-collared Longspurs sensitive to habitat patch size (Ribic et al., 2009). Conversion of native prairie, the species principle breeding habitat, to croplands and urban development is major threat to survival (Hill and Gould 1997).



Map of Species Range in North Dakota
Source: Hagen et al., 2005

General Review Literature:

- Hagen, S.K., P.T. Isakson, and S.R. Dyke. 2005. North Dakota Comprehensive Wildlife Conservation Strategy. North Dakota Game and Fish Department. Bismarck, ND. 454 pp.
<http://gf.nd.gov/conservation/cwcs.html>.
- Hill, D.P. and L.K. Gould. 1997. Chestnut-collared Longspur (*Calcarius ornatus*), The Birds of North America Online (A. Poole, Ed.). Ithaca: Cornell Lab of Ornithology; Retrieved from the Birds of North America Online: <http://bna.birds.cornell.edu/bna/species/288>
- Ribic, C.A., R.R. Koford, J.R. Herkert, D.H. Johnson, N.D. Niemuth, D.E. Naugle, K.K. Bakker, D.W. Sample, and R.B. Renfrew. 2009. Area sensitivity in North American grassland birds: Patterns and process. Auk 126:233-244.

Additional Species Management Information: <http://www.npwrc.usgs.gov/resource/literatr/grasbird/cclo/cclo.htm>